DERWENT-ACC-NO:

2002-699687

DERWENT-WEEK:

200276

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TITLE:

Optical system for multifocal pick-up with

object

illuminating unit

PATENT-ASSIGNEE: SICK AG[SIOP]

PRIORITY-DATA: 2002DE-2007170 (May 7, 2002)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

DE 20207170 U1 August 14, 2002 N/A

008 G02B 007/28

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

DE 20207170U1 N/A 2002DE-2007170

May 7, 2002

INT-CL (IPC): G02B007/28

ABSTRACTED-PUB-NO: DE 20207170U

BASIC-ABSTRACT:

NOVELTY - The system comprises an imaging objective lens, a locally resolving

photoelectric receiver, and a control and signal evaluator. The objects to be

imaged are illuminated with different spectral light. The imaging objective

lens is designed as a $\underline{\text{multifocal}}$ optical system which, dependent on the

illumination mode, forms images of objects in a constant image plane from

different object distances. In the region of pupil plane the system is divided

into several segments with different refraction and spectral transmission capacity.

USE - For light switches controlling material flow, recognition code carriers,

monitoring dangerous motions, etc., and for autofocus camera systems.

ADVANTAGE - Sharp picture without need of changing focal length of distance from objective lens.

DESCRIPTION OF DRAWING(S) - The single figure shows optical schema of $\frac{imaging}{system}$ with $\frac{multifocal}{sol}$ objective lens.

CHOSEN-DRAWING: Dwg.1/1

DERWENT-CLASS: P81 S02 S03 S06 T05 U21

EPI-CODES: S02-C03; S02-C04C; S02-H; S03-C06; S06-B01A; T05-G02; U21-B02C3;

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----- KWIC -----

Basic Abstract Text - ABTX (1):

NOVELTY - The system comprises an imaging objective lens, a

resolving photoelectric receiver, and a control and signal evaluator.

objects to be imaged are illuminated with different spectral light.

imaging objective lens is designed as a multifocal optical system

dependent on the illumination mode, forms images of objects in a constant image

plane from different object distances. In the region of pupil plane the system

is divided into several segments with different refraction and spectral

transmission capacity.

Basic Abstract Text - ABTX (4):

DESCRIPTION OF DRAWING(S) - The single figure shows optical schema

imaging system with multifocal objective lens.

